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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/564,951 | 01/18/2006 | Noboru Uenishi | 049677-0176 5407 | |
| 20277 7590 06/28/2007 MCDERMOTT WILL & EMERY LLP 600 13TH STREET, N.W. | | | EXAMINER | |
| | | | LAVILLA, MICHAEL E | |
| WASHINGTON, DC 20005-3096 | | | ART UNIT | PAPER NUMBER |
| · | | | 1775 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |
| • | | | 06/28/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| - | | Application No. | Applicant(s) | | | |
|--|--|---|---|--|--|--|
| Office Action Summary | | 10/564,951 | UENISHI ET AL. | | | |
| | | Examiner | Art Unit | | | |
| Mark. | | Michael La Villa | 1775 | | | |
| Period fo | The MAILING DATE of this communication app or Reply | ears on the cover sheet with the c | orrespondence address | | | |
| WHIC - Exter after - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | I. lely filed the mailing date of this communication. O (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)🛛 | Responsive to communication(s) filed on 18 Ja | nuary 2006 (Preliminary Amendr | nent). | | | |
| | This action is FINAL . 2b) This action is non-final. | | | | | |
| 3) 🗌 | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| • | closed in accordance with the practice under E | • | | | | |
| Dispositi | on of Claims | | | | | |
| 4)🖂 | Claim(s) <u>1-8</u> is/are pending in the application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| 5) 🗌 | 5) Claim(s) is/are allowed. | | | | | |
| 6)🛛 | Claim(s) <u>1-8</u> is/are rejected. | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | |
| 8) 🗌 | Claim(s) are subject to restriction and/or | election requirement. | | | | |
| Applicati | on Papers | | | | | |
| 9) | The specification is objected to by the Examiner | , | | | | |
| 10)🛛 | The drawing(s) filed on <u>11 December 2006</u> is/ar | re: a) ☐ accepted or b) ☐ objecte | ed to by the Examiner. | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority u | ınder 35 U.S.C. § 119 | | | | | |
| 12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: | | | | | | |
| | 1. Certified copies of the priority documents | have been received. | | | | |
| | 2. Certified copies of the priority documents have been received in Application No | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | |
| | application from the International Bureau (PCT Rule 17.2(a)). | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | | | | | | |
| Attachmen | t(s) | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | |
| 3) 🛛 Inforr | Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application Paper No(s)/Mail Date | | | | | |
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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 2. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Regarding Claim 1, it is unclear what is meant by the reference to "surface side thereof" and "inner side thereof" when only two layers are claimed for this "electrical contact." Does this language mean that there is necessarily present another layer or structure so that inner and surface can be uniquely defined? Does this language mean that the first layer envelops the second layer? Does it mean something else? It is unclear what is the relationship between the claimed alloy composition and the compositions of the layers. Must the composition of the layers, individually or in totality, meet the claimed composition requirements? Must either of the layers be comprised of the claimed alloy? It is unclear whether the claimed "average hardness" is an "average surface hardness." It is unclear whether a specific surface should be utilized or avoided in ascertaining the claimed "average hardness" for each layer. Should the surface of the outer side of the first layer and the interfacial surface of the inner side be used or avoided?

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5. Regarding Claims 3 and 4, it is unclear whether the claimed additional elements necessarily refer to additional ingredients of the alloy or to ingredients of the contact, or both.

Claim Rejections - 35 USC § 102

- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 7. A person shall be entitled to a patent unless -
 - (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 8. Claims 1-8 are rejected under 35 U.S.C. 102(a) as being anticipated by Uenishi et al. JP 2003-217375. Uenishi et al. teaches a cadmium free silver/indium/tin alloy two-layered contact, wherein the first layer possesses the claimed hardness and thickness and wherein the second layer possesses the claimed hardness. See Uenishi et al. (Abstract; Table 1; paragraphs 6, 7, 10-12, and 15-33).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

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2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

11. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Uenishi et al. JP 2003-217375. Uenishi et al. teaches a cadmium free

silver/indium/tin alloy two-layered contact, wherein the first layer possesses the

claimed hardness and thickness and wherein the second layer possesses the

claimed hardness. See Uenishi et al. (Abstract; Table 1; paragraphs 6, 7, 10-12,

and 15-33). To the extent that Uenishi et al. may not exemplify the claimed

second layer hardness, it would have been obvious to one of ordinary skill in the

art at the time of the invention to fabricate the contact of Uenishi with the claimed

hardness value for the second layer as Uenishi suggests that second layer

hardness values of 130 are effective.

Conclusion

- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Monday through Friday.
- 13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael La Villa 22 June 2007

MICHAEL E. LAVILLA PH.D. PRIMARY EXAMINER